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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/661,939	09/12/2003	Frank A. Skraly	MBX 048	8379
23579	7590 01/11/2006		EXAMINER	
PATREA L. PABST			CHOWDHURY, IQBAL HOSSAIN	
PABST PATE 400 COLONY	NT GROUP LLP SOUARE		ART UNIT	PAPER NUMBER
SUITE 1200			1652	
ATLANTA, GA 30361			DATE MAILED: 01/11/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/661,939	SKRALY, FRANK A.				
Office Action Summary	Examiner	Art Unit				
	Iqbal Chowdhury, Ph.D.	1652				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of the state of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period we failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be time till apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE!	l. ely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_•					
	action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-38 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-38 are subject to restriction and/or e	election requirement.					
Application Papers	•					
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acce		Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive i (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	🗂	(DTO 440)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary Paper No(s)/Mail Da	•				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	<u> </u>	atent Application (PTO-152)				

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
- I. Claims 1-12 and 24-35, drawn to a method of producing polyhydroxyalkanoates (PHA) polymer by using at least one monomer and an organism expressing recombinant enzyme genes, classified in class 435, subclass 146.
- II. Claims 13-15 and 36-38, drawn to drawn to a PHA polymer, classified in class 424, subclass 400.
- III. Claims 16-23, drawn to a recombinant organism expressing recombinant enzyme genes, classified in class 435, subclass 252.3.

For each of inventions I-III above, restriction to one of the following is also required under 35 USC121. Therefore, election is required of one of inventions I-III and one of inventions (A) - (C), and one of inventions (D) - (G).

- (A). methods using a poly (3-hydroxyalkanoate) PHA synthetase.
- (B). methods using a poly (4-hydroxyalkanoate) PHA synthetase.
- (C). methods using a poly (4-hydroxybutyrate) synthetase.
- (D). methods additionally including an acyl-CoA transferase.
- (E). methods additionally including an acyl-CoA synthetase.
- (F). methods additionally including a β -ketothiolase.
- (G). methods additionally including an acetoacetyl-CoA reductase.

The inventions are distinct, each from the other because of the following reasons:

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2. The polymer of Group II and the recombinant organism expressing recombinant enzymes

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of Group III, each comprise a chemically unrelated structure capable of separate manufacture,

use and effect. The organism can be used for producing unrelated proteins. Polymer can be used

for producing plastic dish.

3. Inventions III and I are related as product and process of use. The inventions can be

shown to be distinct if either or both of the following can be shown: (1) the process for using the

product as claimed can be practiced with another materially different product or (2) the product

as claimed can be used in a materially different process of using that product (MPEP

§ 806.05(h)). In the instant case the organism can be used for producing unrelated proteins.

4. Inventions I and II are related as process of making and product made. The inventions

are distinct if either or both of the following can be shown: (1) that the process as claimed can be

used to make other and materially different product or (2) that the product as claimed can be

made by another and materially different process (MPEP § 806.05(f)). In the instant case

polymer can be made by chemical synthesis.

5. The proteins of Group (A)-(C) and (D)-(H) are unrelated. Inventions are unrelated if it

can be shown that they are not disclosed as capable of use together and they have different

modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01).

In the instant case the different inventions represent structurally different polypeptides and

polynucleotide encoding them. Therefore, where structural identity is required, such as for

hybridization or expression or antibody binding, the different sequences have different effects.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37CFR 1.48b if one or more of the currently named inventors are no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under CFR 1.48 (b) and by the fee required under 37 CFR 1.17 (i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the imitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction

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requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re Brouwer and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is

Applicant is advised the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iqbal H. Chowdhury whose telephone number is 571-272-8137. The examiner can normally be reached on 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on 703-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Respectfully,

Iqbal Chowdhury, PhD, Patent Examiner Art Unit 1652 (Recombinant Enzymes) US Patent and Trademark Office Remsen Bldg., Rm. 2B69, Mail Box. 2C70 Art Unit: 1652

Ph. (571)-272-8137, Fax. (571)-273-8137

IC

PRIMARY EXAMINER GROUP 1800

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